

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE THE APPLICATION OF:)
) Examiner: Luis Garcia
Alan Robinson)
) Art Unit No. 2613
SERIAL NO. 10/825,542)
) Customer number: 23644
FILED: April 15, 2004)
)
FOR: Analysis And Control Of)
Optical Communications Systems)

RESPONSE TO RESTRICTION REQUIREMENT DATED FEBRUARY 9, 2007

Honorable Director of Patents and Trademarks
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

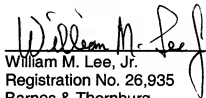
In response to the Restriction Requirement dated February 9, 2007, the applicant elects Group I, comprising claims 1-17, 22-37 and 39-42, without traverse. With respect to the further requirement for election of species, the applicant elects, with traverse, Species I, comprising claims 2-4 and 24-26.

Regarding the traverse, the self-phase modulation effect SPM, cross phase modulation effect XPM and four wave mixing effect FWM are all well-known non-linear distortions which can arise (as explained at page 2 lines 15 to 16 of the Background of the invention). These non-linear effects are each a result of the Kerr effect. The invention uses the interaction between fibre chromatic dispersion and this Kerr effect non-linearity to resolve non-linear distortion from different parts of a transmission line, as explained at page 3 lines 24 to 29. Thus, it is submitted that all Species should remain.

Further action on the application is now awaited.

March 9, 2007

Respectfully submitted,

A handwritten signature in black ink, appearing to read "William M. Lee, Jr.", is written over a horizontal line.

William M. Lee, Jr.

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